Create ETL Project for Collecting Sales Data using SSIS

Case Scenario

For this ETL project, the requirements are listed below:

- Sales data will be pushed to specified shared folder regularly.
- Data is stored in CSV files with columns: Sale Number, Product Name, Product Color,
 Sale Amount, Sale Area and date.
- Minions of sales records are stored in each file.
- The flat files need to be archived after processing.
- The process can be scheduled to run automatically and periodically.

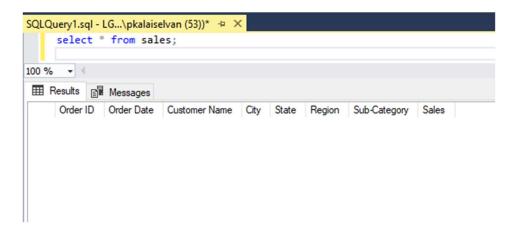
For datasets:

https://data.world/datasets/sales

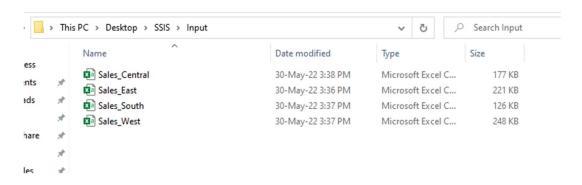
Steps Followed:

- 1. Created table in SQL Server Management Studio
- 2. Placed .csv data files in to 'Input' folder
- 3. Created SSIS package that fetch data from .csv files (from input folder) and load data to SQL server table (sales)
- 4. After data load, those .csv files will be moved to 'Archive' folder with timestamp
- 5. Created SQL Server Agent job and schedule to automate this process.

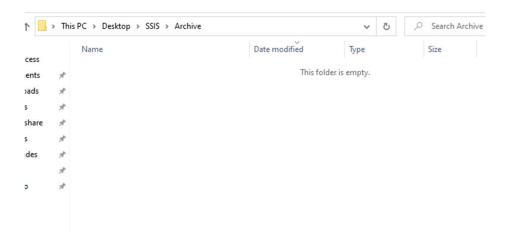
1. Created table in SQL server (sales)



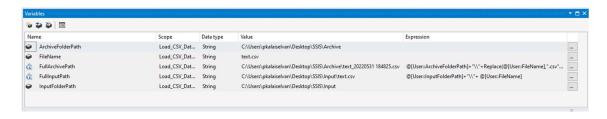
2. Placed .csv files in 'Input' folder



3. Archive folder is empty now, files will be saved in this folder after processing the data load

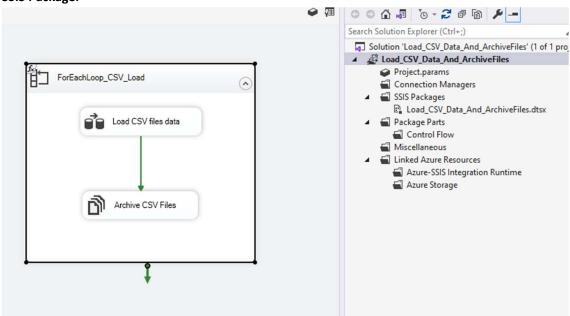


4. Created variable that holder folder path, filename and full path of the folder

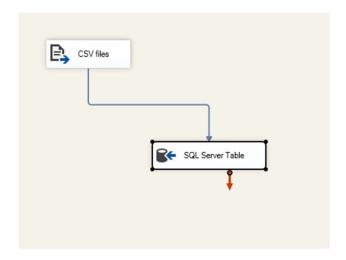


- 5. Created SSIS package that loads data from .csv files to SQL server
 - a. Used 'ForEachLoop Container' to process multiple .csv files
 - b. Created 'Data Flow Task' the fetch all the .csv files from 'Input' folder and loads data to SQL server table
 - c. Used 'File System Task' to move the .csv files in to 'Archive' folder with processed timestamp.

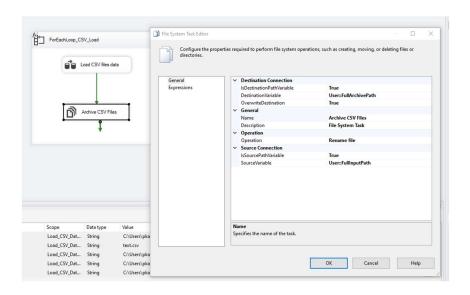
SSIS Package:



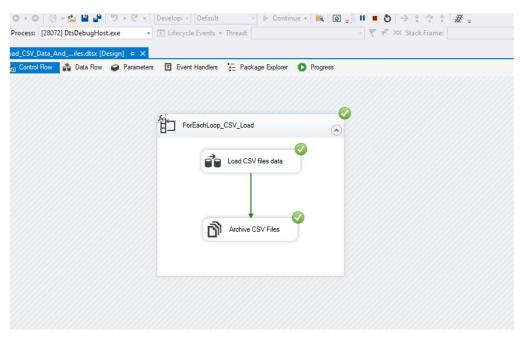
Data Flow Task

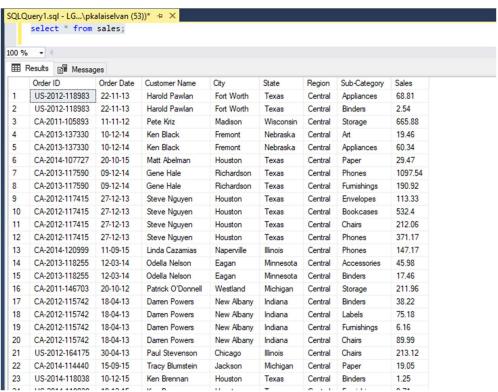


File System Task



6. After the successful load, data are available in SQL server table





7. Once the data load is completed, the files are moved from 'Input' folder to 'Archive' folder with date and timestamps

